



# PRIMHD summary report – HoNOS

Health of the Nation Outcomes Scales – working age adults report for New Zealand



Programme for the Integration of Mental Health Data

[tepou.co.nz](http://tepou.co.nz)

This report summarises national Programme for the Integration of Mental Health Data (PRIMHD) data submitted by district health boards (DHB). In particular, it presents Health of the National Outcomes Scale for working aged adults (HoNOS) data, from services where HoNOS is the primary measure.

This report is organised into three major sections that provide information about:

- 1. Outcomes related information:** This provides indications about what changes have occurred for service users between entering and leaving the service. Outcome is assessed by comparing the group admitted and the group discharged from the service in the same time period. This should provide a reasonable indication of outcomes achieved unless the service user mix has changed significantly over the usual period for which service is delivered.
- 2. Service related information:** This provides information about the services, such as the overall severity of service users who use different services.
- 3. Collection completion and validity:** This details the completeness of the data set provided by your mental health services. This is important because it indicates how valid and reliable the data sets are likely to be. The less complete the data set, the less valid the information is likely to be.

In many cases the data is presented graphically for New Zealand, and then presented as a table for the individual team types (see team type classification factsheet).

The time period covered differs for the different data presented. See the title or the notes under the graphs or tables for information about the time period covered. Unless otherwise stated, the notes under the graphs also apply to the corresponding table.

For all graphs and tables, if there are less than twenty cases in the data set, then the information is not presented. This is because small samples frequently provide inaccurate and potentially misleading results. See the notes and user guide for other important information about the graphs and tables.

Where appropriate, the statistical **confidence interval** is presented. This is shown by error bars (small lines above and below the average) on the graphs, and a score range in some tables. As a rule of thumb, if the confidence intervals of two data points do not overlap, the two points can be considered to be significantly different. If the confidence intervals of the data points do overlap, we assume the points are not significantly different. It is important to note that statistical significance may not indicate a clinically significant difference.

**See the associated user guide for more information** about how to understand and use the data presented in this report.

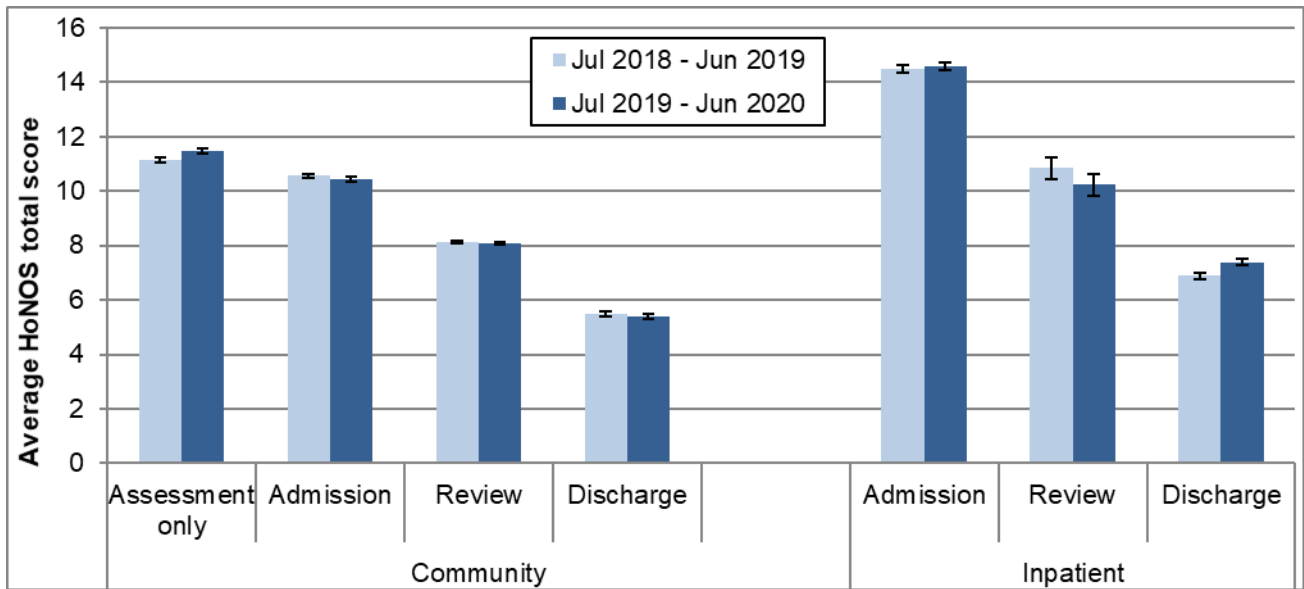
Data for graphs 11 and 12 was extracted 14 October 2020 from PRIMHD by the Ministry of Health and formatted by Te Pou. The data for graphs and tables 1 to 10 and 13 was extracted 23 September 2020 from PRIMHD by the Ministry of Health, then analysed and formatted by Te Pou.

*Please note: For this period a few DHBs have incomplete data which will affect New Zealand totals.*

# 1. Outcomes – changes in service user status

This section presents HoNOS data indicating the status of service users at different stages of their contact with DHB mental health services. Graph and Table 1, and Graph 2 show results from HoNOS total scores. Graphs and Tables 3 to 5b show results related to the percentage of HoNOS items in the clinical range. Table 6 shows results from the Index of Severity derived from HoNOS scores.

**Graph 1: Average HoNOS total score (12 items) by collection type: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Error bars indicate the confidence intervals around the data point. If error bars overlap, the data points are not significantly different. Community discharge does not include discharge to an inpatient unit.

**Interpretation:** Decrease between admission and discharge is an indication of the outcomes achieved by the service user and service. The greater the decrease between admission and discharge, and the lower the average HoNOS score at discharge, the more positive the outcome.

**Target:** A greater decrease from admission to discharge and lower average rating at discharge.

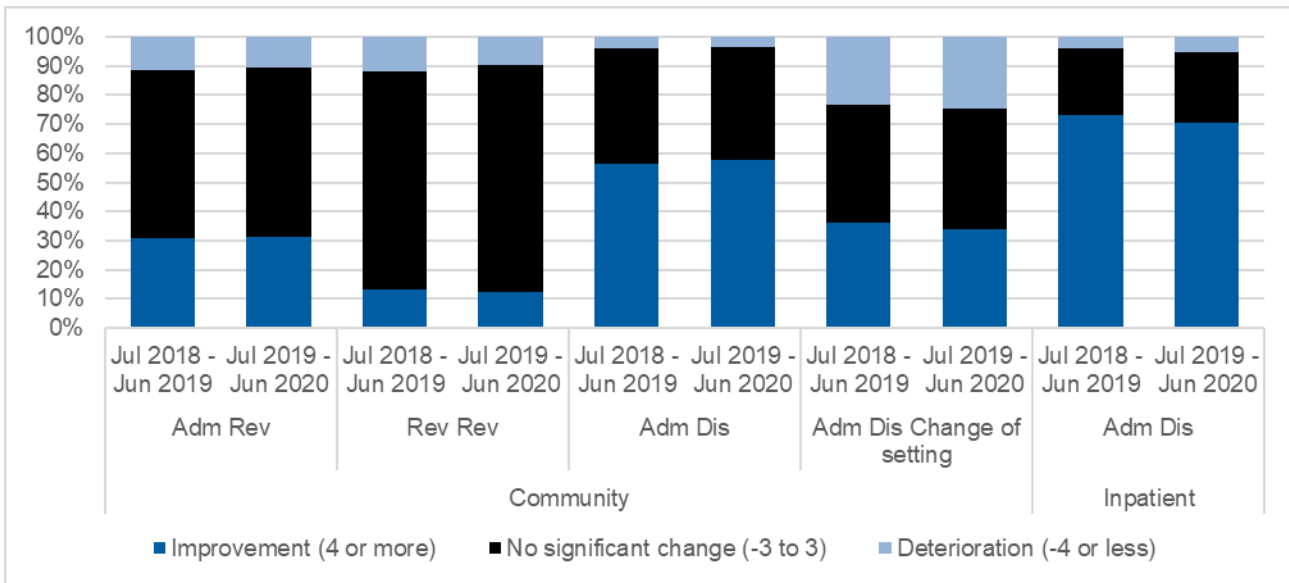
**Table 1: Average HoNOS total score (12 items), by collection type and team: New Zealand, Jul 2019 - Jun 2020**

Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
<b>Community services</b>												
Alcohol and drug team	287	10.7	10.0-11.4	474	10.4	9.9-10.8	559	8.2	7.8-8.7	235	5.2	4.6-5.7
Child and youth team	36	10.8	8.7-12.8	66	12.0	10.3-13.6	206	9.2	8.3-10.2	71	6.7	5.4-8.1
Co-existing problem team							34	9.3	7.5-11.0			
Community team	10,912	11.5	11.4-11.6	11,244	10.6	10.5-10.7	35,459	8.1	8.1-8.2	6,298	5.7	5.5-5.8
Eating disorders team	28	9.0	6.8-11.3	333	10.4	9.7-11.1	1,262	8.1	7.7-8.4	136	4.7	3.9-5.5
Eating disorders team				336	11.2	10.6-11.8	271	8.7	8.1-9.4	172	5.8	5.1-6.6
Forensic team	65	9.6	8.4-10.8	49	10.3	8.7-12.0	116	6.8	5.9-7.7	79	4.9	4.0-5.9
Kaupapa Māori team	370	11.8	11.2-12.4	536	10.4	9.9-10.9	3,187	8.6	8.4-8.8	270	6.0	5.4-6.6
Maternal mental health team	137	6.9	6.1-7.7	912	8.6	8.3-8.9	1,203	7.1	6.8-7.3	887	3.5	3.2-3.7
Older people team	24	11.8	9.6-14.0	76	11.4	10.0-12.8	108	7.9	7.0-8.8			
Pacific people team				143	8.0	7.2-8.9	110	9.9	8.8-11.0	43	7.7	6.4-8.9
Specialty team	140	18.7	17.3-20.1	66	11.6	10.5-12.7	1,199	5.0	4.8-5.2	76	3.1	2.4-3.7
<b>Total</b>	<b>12,035</b>	<b>11.5</b>	<b>11.4-11.6</b>	<b>14,266</b>	<b>10.4</b>	<b>10.4-10.5</b>	<b>43,749</b>	<b>8.1</b>	<b>8.0-8.1</b>	<b>8,285</b>	<b>5.4</b>	<b>5.3-5.5</b>
<b>Inpatient services</b>												
Alcohol and drug team				223	9.8	9.2-10.4				210	7.2	6.7-7.7
Eating disorders team										22	8.1	6.3-10.0
Forensic team				29	12.1	8.1-16.1	59	12.7	11.3-14.2	26	5.5	2.5-8.6
Inpatient team				8,979	14.7	14.6-14.9	1,160	10.2	9.8-10.6	8,356	7.4	7.3-7.5
Maternal mental health team				91	11.2	10.0-12.5	25	5.9	3.8-8.1	77	8.3	7.0-9.6
Older people team				20	15.1	11.7-18.5				22	10.4	6.7-14.2
Specialty team										33	9.2	8.1-10.3
<b>Total</b>				<b>9,376</b>	<b>14.6</b>	<b>14.4-14.7</b>	<b>1,250</b>	<b>10.2</b>	<b>9.8-10.6</b>	<b>8,747</b>	<b>7.4</b>	<b>7.3-7.5</b>

**Notes:** N = number of collections in period. Average = average HoNOS (12 item) score, CI = confidence interval for average score. Community discharge does not include discharge to an inpatient unit.

**Interpretation:** If confidence intervals for two scores do not overlap, then the scores have a statistically significant difference. It is important to note that statistical significance may not indicate a clinically significant difference.

**Graph 2: Difference in HoNOS total score (12 items) for matched pairs by pair type and setting, New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Shows the difference of the matched pair between the start and end HoNOS total score. Community admission to discharge includes discharge no further care and discharge other.

**Interpretation:** The graphs compare two time periods. Dark blue band indicates percentage improvement within the given time period, while black band indicates no significant change and light blue deterioration. Improvement = 4 or more, no significant change = -3 to 3 and deterioration = -4 or less.

**Target:** A greater percentage increase in improvement for both community and inpatient settings and a smaller percentage in deterioration.

**Table 2: Difference in HoNOS total score (12 items) for matched pairs by pair type and team, community New Zealand, Jul 2019 - Jun 2020**

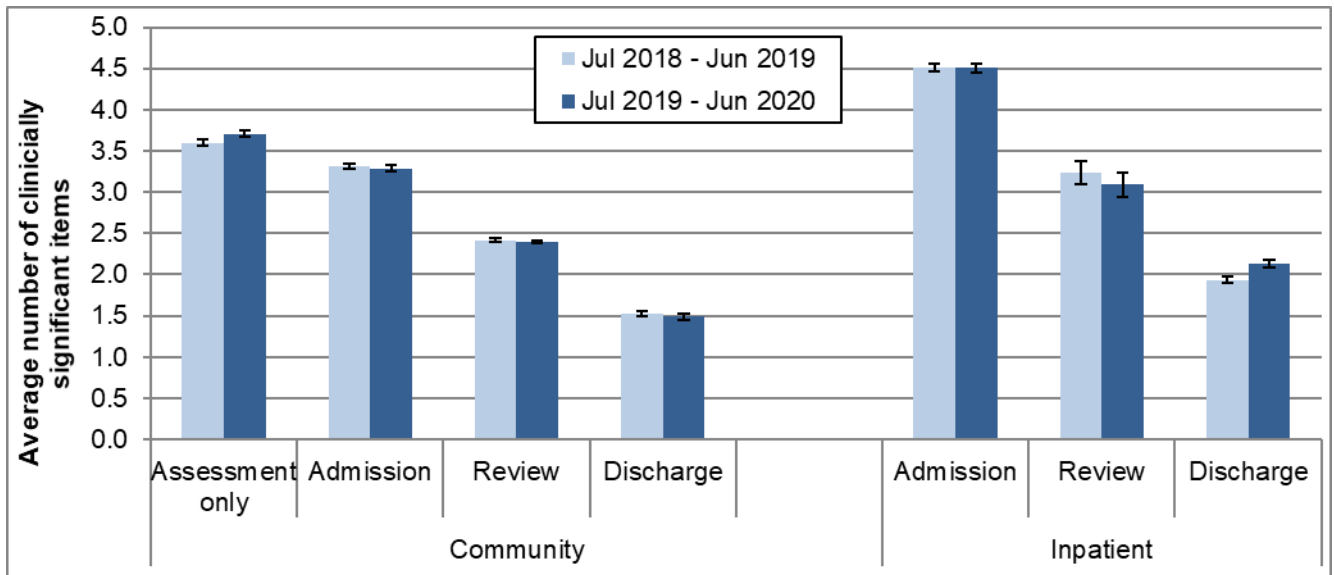
Team Type	Com Adm Rev				Com Rev Rev				Com Adm Dis				Com Adm Dis Change of setting			
	↓ Det	No SC	↑ Imp	N	↓ Det	No SC	↑ Imp	N	↓ Det	No SC	↑ Imp	N	↓ Det	No SC	↑ Imp	N
Alcohol and drug team	14%	50%	36%	74	16%	73%	12%	197	7%	43%	51%	174	15%	42%	42%	26
Child and youth team					11%	72%	17%	92								
Community team	11%	58%	31%	3,378	9%	78%	12%	18,720	4%	39%	57%	3,290	27%	40%	34%	1,908
Early intervention team	13%	47%	40%	144	15%	66%	19%	636	7%	40%	53%	86	19%	44%	37%	131
Eating disorders team	10%	59%	31%	39	10%	73%	17%	48	3%	38%	59%	105	7%	49%	45%	74
Forensic team					6%	86%	8%	50	0%	38%	63%	32				
Kaupapa Māori team	12%	61%	26%	179	9%	78%	13%	1,767	7%	36%	57%	122	25%	48%	27%	130
Maternal mental health team	5%	60%	35%	272	8%	79%	13%	438	1%	31%	68%	504	12%	46%	42%	91
Needs assessment and service coordination team					5%	93%	1%	73								
Older people team					16%	58%	26%	38	0%	40%	60%	25				
Pacific people team	22%	42%	37%	65	9%	79%	12%	725	6%	42%	53%	36	24%	47%	29%	55
<b>Total</b>	<b>11%</b>	<b>58%</b>	<b>31%</b>	<b>4,205</b>	<b>10%</b>	<b>78%</b>	<b>13%</b>	<b>22,811</b>	<b>4%</b>	<b>38%</b>	<b>58%</b>	<b>4,401</b>	<b>25%</b>	<b>41%</b>	<b>34%</b>	<b>2,438</b>

**Notes:** Shows the difference of the matched pair between the start and end HoNOS total score. Community admission to discharge includes discharge no further care and discharge other.

**Interpretation:** Improvement (↑Imp) = 4 or more, no significant change (No SC) = -3 to 3 and deterioration (↓Det) = -4 or less.

**Target:** A greater percentage increase in improvement for community setting and a smaller percentage in deterioration.

**Graph 3: Average number of clinically significant HoNOS items by collection type: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Average number clinically significant items = the average number of items in the clinical range (2, 3 or 4) per collection. Community discharge does not include discharge to an inpatient unit.

**Interpretation:** Points are significantly different if error bars don't overlap. A decrease between admission and discharge is an indication of the outcomes achieved by the service and service user. A greater decrease between admission and discharge indicates a better outcome. A lower admission score could be indication of service users seeking out and being engaged by services at a lower level of severity.

**Target:** A greater decrease from admission to discharge and smaller percentage in clinical range at discharge

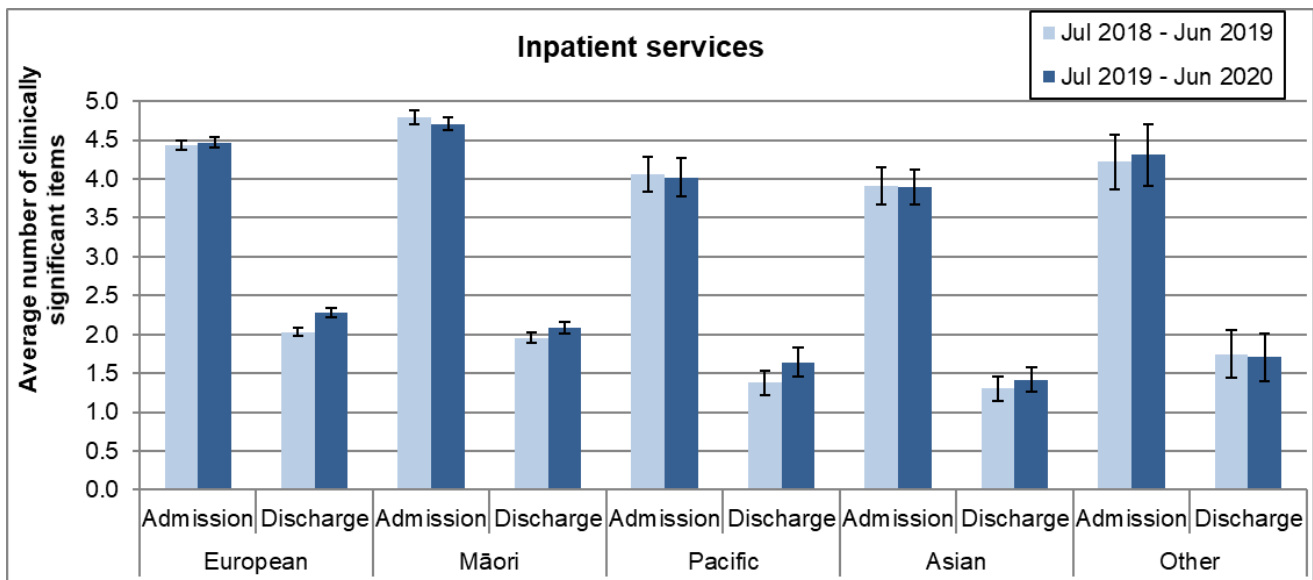
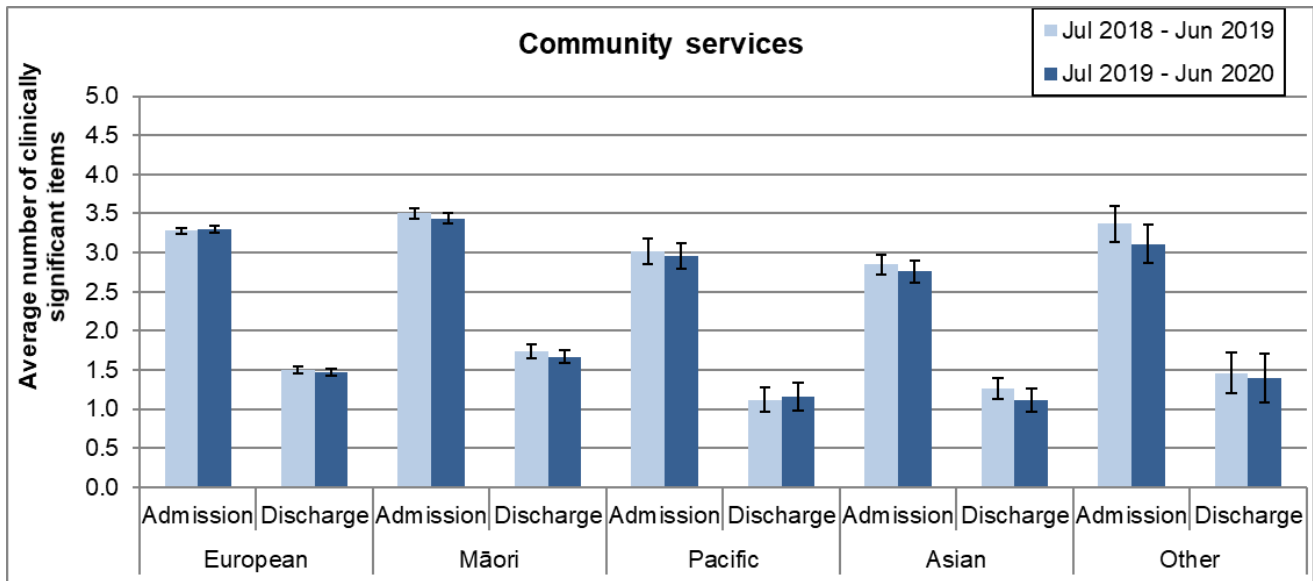
**Table 3: Average number of clinically significant HoNOS items by collection type and team: New Zealand, Jul 2019 - Jun 2020**

Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
<b>Community services</b>												
Alcohol and drug team	287	3.5	3.2-3.8	474	3.3	3.1-3.5	559	2.4	2.3-2.6	235	1.4	1.2-1.6
Child and youth team	36	3.3	2.6-4.0	66	3.9	3.3-4.5	206	2.7	2.4-3.0	71	2.1	1.6-2.7
Co-existing problem team							34	2.7	2.0-3.4			
Community team	10,912	3.7	3.7-3.8	11,244	3.3	3.3-3.4	35,459	2.4	2.4-2.4	6,298	1.6	1.5-1.6
Early intervention team				333	3.3	3.0-3.5	1,262	2.5	2.3-2.6	136	1.3	1.1-1.6
Eating disorders team	28	2.7	2.0-3.4	336	3.4	3.1-3.6	271	2.7	2.5-2.9	172	1.7	1.4-2.0
Forensic team	65	2.4	2.0-2.8	49	2.8	2.3-3.3	116	1.8	1.5-2.1	79	1.0	0.7-1.2
Kaupapa Māori team	370	3.8	3.6-4.1	536	3.2	3.0-3.4	3,187	2.6	2.5-2.6	270	1.6	1.4-1.9
Maternal mental health team	137	2.1	1.8-2.4	912	2.7	2.6-2.9	1,203	2.2	2.1-2.3	887	0.9	0.8-1.0
Older people team	24	3.3	2.6-4.0	76	3.5	3.0-4.0	108	2.3	1.9-2.7			
Pacific people team				143	2.4	2.1-2.7	110	3.1	2.7-3.5	43	2.3	1.8-2.7
Specialty team	140	5.1	4.7-5.5	66	3.7	3.3-4.1	1,199	1.2	1.1-1.3	76	0.6	0.4-0.8
<b>Total</b>	<b>12,035</b>	<b>3.7</b>	<b>3.7-3.7</b>	<b>14,266</b>	<b>3.3</b>	<b>3.3-3.3</b>	<b>43,749</b>	<b>2.4</b>	<b>2.4-2.4</b>	<b>8,285</b>	<b>1.5</b>	<b>1.5-1.5</b>
<b>Inpatient services</b>												
Alcohol and drug team				223	2.7	2.5-2.9				210	2.1	1.9-2.2
Eating disorders team										22	2.6	1.9-3.3
Forensic team				29	3.5	2.3-4.7	59	4.4	3.8-5.0	26	1.4	0.6-2.2
Inpatient team				8,979	4.6	4.5-4.6	1,160	3.1	2.9-3.2	8,356	2.1	2.1-2.2
Maternal mental health team				91	3.4	3.0-3.8	25	1.4	0.7-2.1	77	2.5	2.0-3.0
Older people team				20	4.7	3.6-5.8				22	3.2	2.1-4.3
Specialty team										33	3.2	2.8-3.7
<b>Total</b>				<b>9,376</b>	<b>4.5</b>	<b>4.5-4.6</b>	<b>1,250</b>	<b>3.1</b>	<b>2.9-3.2</b>	<b>8,747</b>	<b>2.1</b>	<b>2.1-2.2</b>

**Notes:** N = number of collections in period. Average = average number of HoNOS items in the clinically significant range (ie scoring 2, 3, or 4). CI = confidence interval for average score. Community discharge does not include discharge to an inpatient unit. **Interpretation:** If confidence intervals for two scores do not overlap, then the scores have a statistically significant difference. It is important to note that statistical significance may not indicate a clinically significant difference



**Graph 4: Average number of clinically significant HoNOS items at admission and discharge by ethnic group: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**

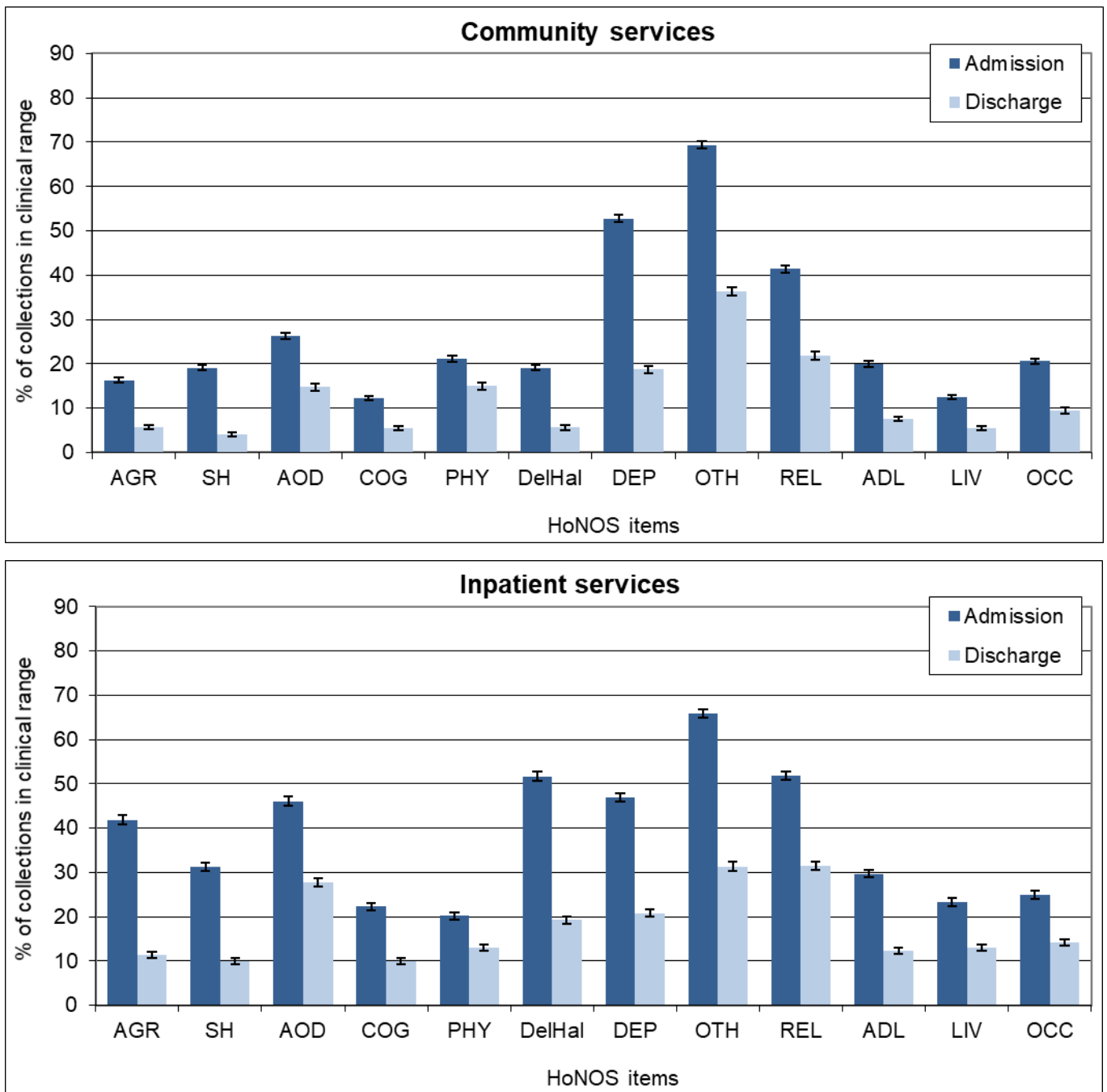


**Notes:** Average number of HoNOS items in the clinical range (2, 3 or 4). Community discharge does not include discharge to an inpatient unit.

**Interpretation:** Points are significantly different if error bars don't overlap. Decrease between admission and discharge is an indication of the outcomes achieved by the service and service user. A greater decrease between admission and discharge indicates a better outcome. A lower admission score could be indication of service users seeking out and being engaged by services at a lower level of acuity.

**Target:** A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

**Graph 5a: Percentage of collections in clinical range on each HoNOS item (admission and discharge collections): New Zealand, Jul 2019 - Jun 2020**



**Notes:** Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item. Community discharge does not include discharge to an inpatient unit.

**Interpretation:** The longer the bar, the more prevalent the difficulty measured by the item is amongst service users. A greater decrease in the length of the bar from admission to discharge suggests a better outcome for the difficulty measured by the item. Items that show medium to high frequency and less change may suggest possible targets for service improvement.

**Target:** A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

**Table 5a: Percentage of collections in clinical range on each HoNOS item (admission and discharge collections) by team: New Zealand Jul 2019 - Jun 2020**

**Community services**

<b>First 6 HoNOS items</b>														
<b>Team type</b>	<b>N</b>		<b>AGR</b>		<b>SH</b>		<b>AOD</b>		<b>COG</b>		<b>PHY</b>		<b>DelHal</b>	
	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>	<b>Adm</b>	<b>Disch</b>
Alcohol and drug team	474	235	14%	5%	14%	2%	84%	46%	7%	3%	23%	9%	4%	1%
Child and youth team	66	71	26%	10%	35%	14%	21%	18%	18%	6%	20%	18%	17%	8%
Community team	11,236	6,289	17%	6%	21%	5%	26%	15%	12%	6%	21%	16%	20%	6%
Early intervention team	333	136	17%	6%	9%	1%	29%	18%	25%	7%	8%	4%	53%	13%
Eating disorders team	336	172	4%	5%	12%	5%	10%	6%	9%	3%	41%	19%	8%	5%
Forensic team	49	79	10%	3%	10%	1%	42%	7%	6%	0%	2%	8%	17%	1%
Kaupapa Māori team	536	270	16%	10%	13%	3%	33%	21%	13%	8%	17%	9%	25%	10%
Maternal mental health team	912	887	12%	2%	8%	1%	4%	2%	5%	1%	23%	7%	2%	1%
Older people team	76	43	27%	9%	3%	0%	5%	0%	68%	63%	41%	56%	19%	7%
Pacific people team	143	76	10%	0%	8%	0%	17%	8%	10%	3%	17%	12%	25%	7%
Specialty team	66		12%		29%		12%		14%		47%		6%	
<b>Total</b>	<b>14,253</b>	<b>8,274</b>	<b>16%</b>	<b>6%</b>	<b>19%</b>	<b>4%</b>	<b>26%</b>	<b>15%</b>	<b>12%</b>	<b>5%</b>	<b>21%</b>	<b>15%</b>	<b>19%</b>	<b>6%</b>

Second 6 HoNOS items												
Team type	DEP		OTH		REL		ADL		LIV		OCC	
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch
Alcohol and drug team	40%	11%	51%	23%	44%	20%	14%	6%	13%	6%	23%	8%
Child and youth team	59%	33%	79%	56%	50%	30%	32%	13%	15%	4%	17%	4%
Community team	53%	20%	69%	37%	42%	23%	20%	8%	12%	6%	21%	11%
Early intervention team	32%	9%	58%	34%	40%	21%	28%	10%	12%	2%	20%	10%
Eating disorders team	62%	28%	99%	64%	36%	20%	31%	6%	8%	3%	15%	6%
Forensic team	14%	3%	33%	4%	22%	3%	4%	1%	57%	34%	63%	33%
Kaupapa Māori team	44%	21%	60%	33%	45%	27%	17%	6%	18%	6%	19%	10%
Maternal mental health team	69%	15%	84%	34%	33%	16%	15%	3%	9%	4%	12%	2%
Older people team	34%	9%	45%	15%	25%	21%	56%	44%	11%	2%	21%	2%
Pacific people team	31%	4%	50%	14%	36%	7%	15%	3%	11%	4%	9%	0%
Specialty team	52%		77%		45%		35%		18%		23%	
<b>Total</b>	<b>53%</b>	<b>19%</b>	<b>69%</b>	<b>36%</b>	<b>41%</b>	<b>22%</b>	<b>20%</b>	<b>8%</b>	<b>12%</b>	<b>6%</b>	<b>21%</b>	<b>9%</b>

## Inpatient services

<b>First 6 HoNOS items</b>														
Team type	N		AGR		SH		AOD		COG		PHY		DelHal	
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch
Alcohol and drug team	223	210	9%	11%	2%	4%	100%	100%	8%	9%	36%	30%	1%	1%
Eating disorders team		22		9%		23%		0%		9%		23%		0%
Forensic team	29	26	41%	8%	10%	4%	39%	12%	28%	4%	3%	8%	45%	19%
Inpatient team	8,960	8,355	43%	11%	32%	10%	45%	26%	23%	10%	20%	12%	53%	20%
Maternal mental health team	91	77	20%	16%	24%	17%	10%	8%	9%	8%	21%	13%	22%	12%
Older people team	20	22	25%	14%	20%	14%	26%	0%	60%	50%	60%	59%	40%	18%
Specialty team		33		12%		42%		9%		0%		12%		6%
<b>Total</b>	<b>9,357</b>	<b>8,746</b>	<b>42%</b>	<b>11%</b>	<b>31%</b>	<b>10%</b>	<b>46%</b>	<b>28%</b>	<b>22%</b>	<b>10%</b>	<b>20%</b>	<b>13%</b>	<b>52%</b>	<b>19%</b>

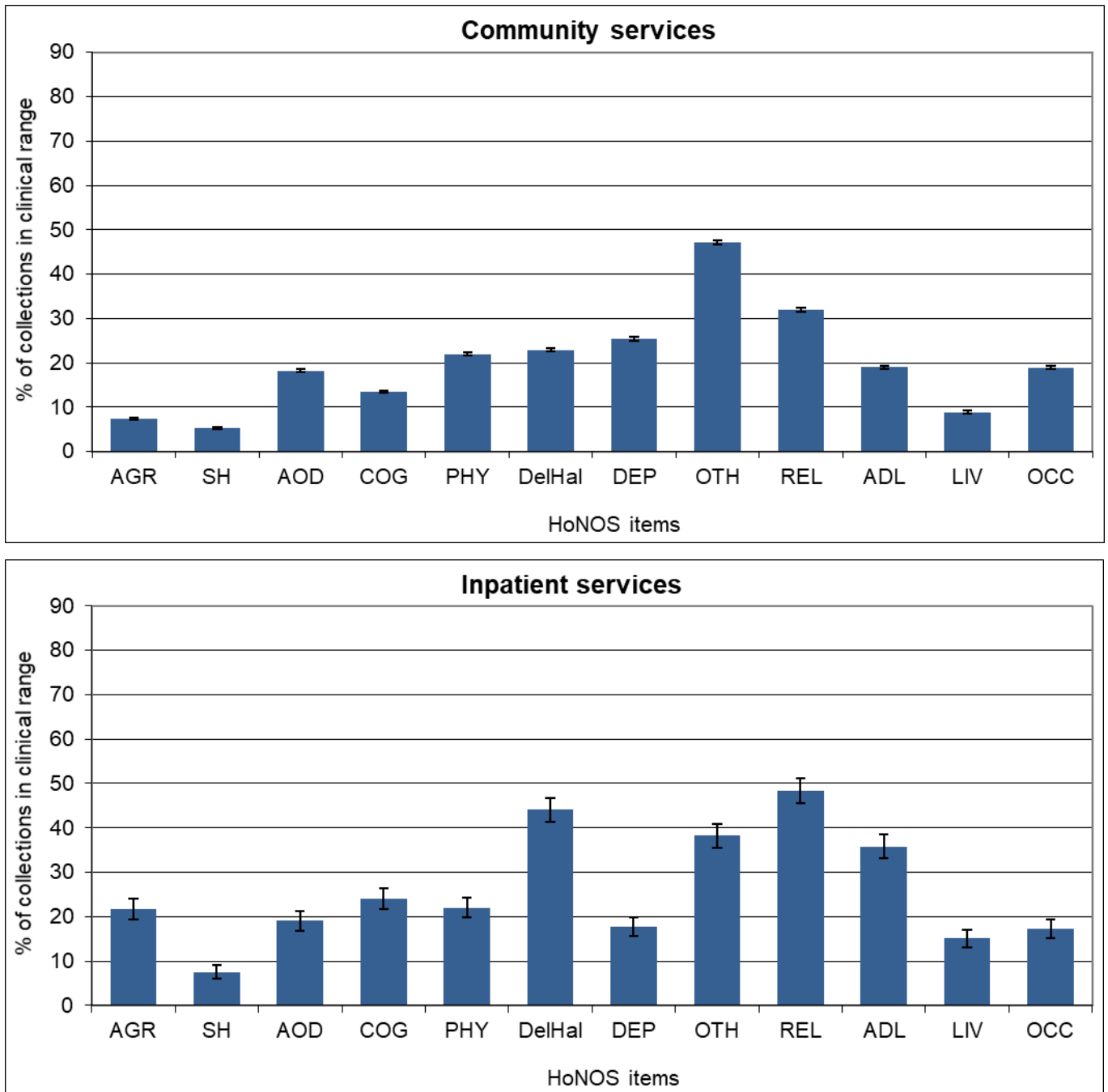
<b>Second 6 HoNOS items</b>													
Team type	DEP		OTH		REL		ADL		LIV		OCC		
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	
Alcohol and drug team	51%	27%	27%	14%	17%	7%	7%	2%	17%	4%	23%	4%	
Eating disorders team		50%		86%		32%		23%		0%		5%	
Forensic team	21%	4%	48%	23%	48%	19%	24%	12%	15%	8%	29%	20%	
Inpatient team	47%	20%	67%	31%	53%	32%	30%	12%	23%	13%	25%	14%	
Maternal mental health team	72%	43%	71%	58%	40%	42%	34%	17%	14%	13%	7%	5%	
Older people team	42%	14%	45%	23%	60%	36%	50%	55%	39%	20%	12%	22%	
Specialty team		36%		94%		67%		15%		21%		9%	
<b>Total</b>	<b>47%</b>	<b>21%</b>	<b>66%</b>	<b>31%</b>	<b>52%</b>	<b>31%</b>	<b>30%</b>	<b>12%</b>	<b>23%</b>	<b>13%</b>	<b>25%</b>	<b>14%</b>	

**Notes:** Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item. Community discharge does not include discharges to an inpatient unit.

**Interpretation:** The higher the percentage, the more prevalent the difficulty measured by the item is amongst service users. A greater decrease between admission and discharge suggests a better outcome for the difficulty measured by the item. Items that show medium to high frequency and less change may suggest possible targets for service improvement.

**Target:** A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

**Graph 5b: Percentage of collections in clinical range on each HoNOS item (review collections): New Zealand, Jul 2019 - Jun 2020**



**Notes:** Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item on review collections. Due to most admission being less than 91 days, the data set for review collections in inpatient settings is relatively small.

**Interpretation:** The longer the bar, the more prevalent the difficulty measured by the item is amongst service users.

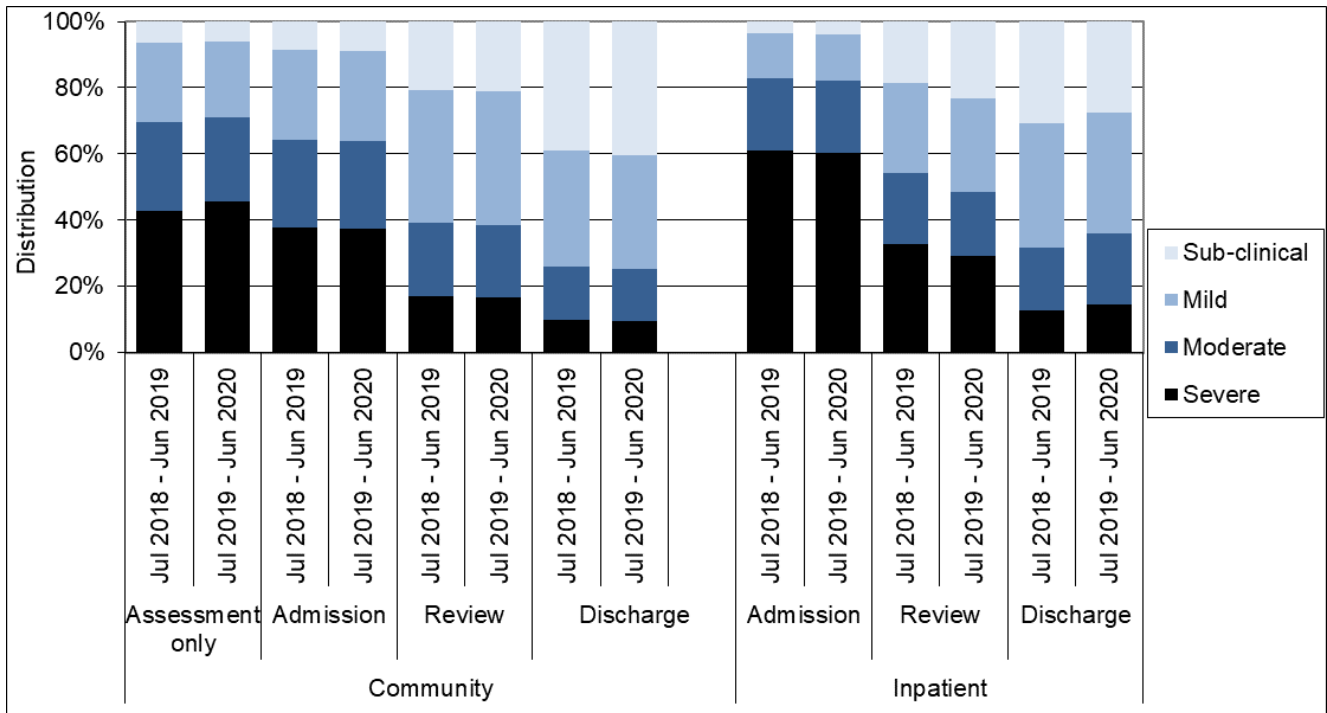
**Table 5b: Percentage of collections in clinical range on each HoNOS item (review collections) by team: New Zealand, Jul 2019 - Jun 2020**

Team type	N	AGR	SH	AOD	COG	PHY	DeIHaI	DEP	OTH	REL	ADL	LIV	OCC
<b>Community services</b>													
Alcohol and drug team	559	9%	6%	71%	7%	28%	2%	25%	41%	26%	8%	8%	15%
Child and youth team	206	16%	15%	17%	12%	18%	15%	39%	60%	37%	23%	7%	15%
Co-existing problem team	34	9%	12%	36%	6%	26%	15%	32%	47%	38%	9%	21%	21%
Community team	35,434	7%	6%	17%	14%	23%	24%	25%	47%	33%	20%	9%	19%
Early intervention team	1,262	7%	5%	27%	18%	8%	31%	21%	51%	33%	23%	8%	15%
Eating disorders team	271	4%	8%	6%	7%	30%	6%	51%	94%	27%	22%	7%	9%
Forensic team	116	5%	3%	11%	0%	15%	16%	3%	26%	19%	9%	28%	47%
Kaupapa Māori team	3,183	10%	5%	27%	15%	23%	26%	23%	46%	30%	18%	13%	22%
Maternal mental health team	1,203	11%	3%	3%	4%	16%	1%	51%	73%	33%	11%	7%	11%
Needs assessment and service coordination team	108	3%	1%	16%	29%	20%	32%	10%	30%	30%	29%	8%	24%
Older people team	110	22%	5%	7%	58%	45%	21%	20%	31%	34%	55%	2%	15%
Pacific people team	1,199	3%	1%	12%	6%	13%	19%	11%	19%	16%	9%	5%	9%
<b>Total</b>	<b>43,718</b>	<b>7%</b>	<b>5%</b>	<b>18%</b>	<b>13%</b>	<b>22%</b>	<b>23%</b>	<b>25%</b>	<b>47%</b>	<b>32%</b>	<b>19%</b>	<b>9%</b>	<b>19%</b>
<b>Inpatient services</b>													
Forensic team	59	24%	7%	19%	51%	39%	58%	20%	53%	59%	68%	12%	27%
Inpatient team	1,160	22%	8%	19%	23%	21%	44%	17%	38%	49%	35%	15%	17%
Maternal mental health team	25	4%	8%	0%	0%	12%	24%	32%	12%	20%	8%	20%	0%
<b>Total</b>	<b>1,250</b>	<b>22%</b>	<b>8%</b>	<b>19%</b>	<b>24%</b>	<b>22%</b>	<b>44%</b>	<b>18%</b>	<b>38%</b>	<b>48%</b>	<b>36%</b>	<b>15%</b>	<b>17%</b>

**Notes:** Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item on review collections. Due to most admission being less than 91 days, the data set for review collections in inpatient settings is relatively small.

**Interpretation:** The higher the percentage, the more prevalent the difficulty measured by the item is amongst service users.

**Graph 6: Index of Severity ratings for HoNOS by collection type: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Community discharge does not include discharge to an inpatient unit. Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items.

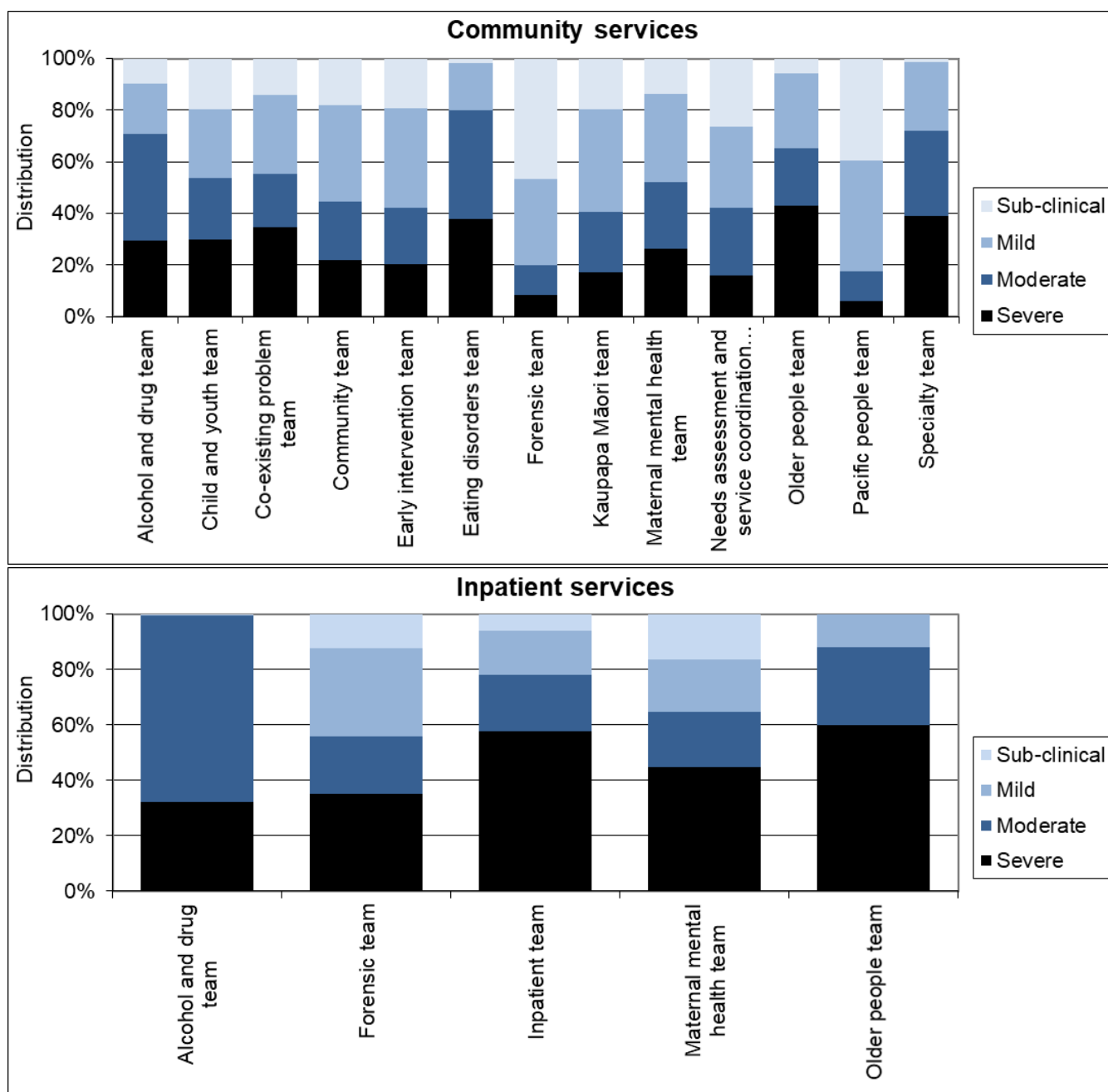
**Interpretation:** Darker bars indicate higher overall level of severity. More positive outcome is shown by larger decrease in darker sections of bar between admission and discharge.



## 2. Other measures of service activity

This section presents other information related to data collected in PRIMHD that may be helpful for understanding how teams are operating. This includes information relevant to caseload intensity and team activity.

**Graph 7: Index of Severity for HoNOS (admission and review collections) by team, New Zealand, Jul 2019 - Jun 2020**



**Notes:** Only data related to collection at admission and review is included so that results reflect the severity of service users during their engagement with the service. Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items.

**Interpretation:** This graph gives an impression of the overall severity of the caseload for different teams at admission. The longer the darker bar, the higher the overall severity of the team's caseload.

**Table 7: Index of Severity for HoNOS by collection type and team: New Zealand, Jul 2019 - Jun 2020**

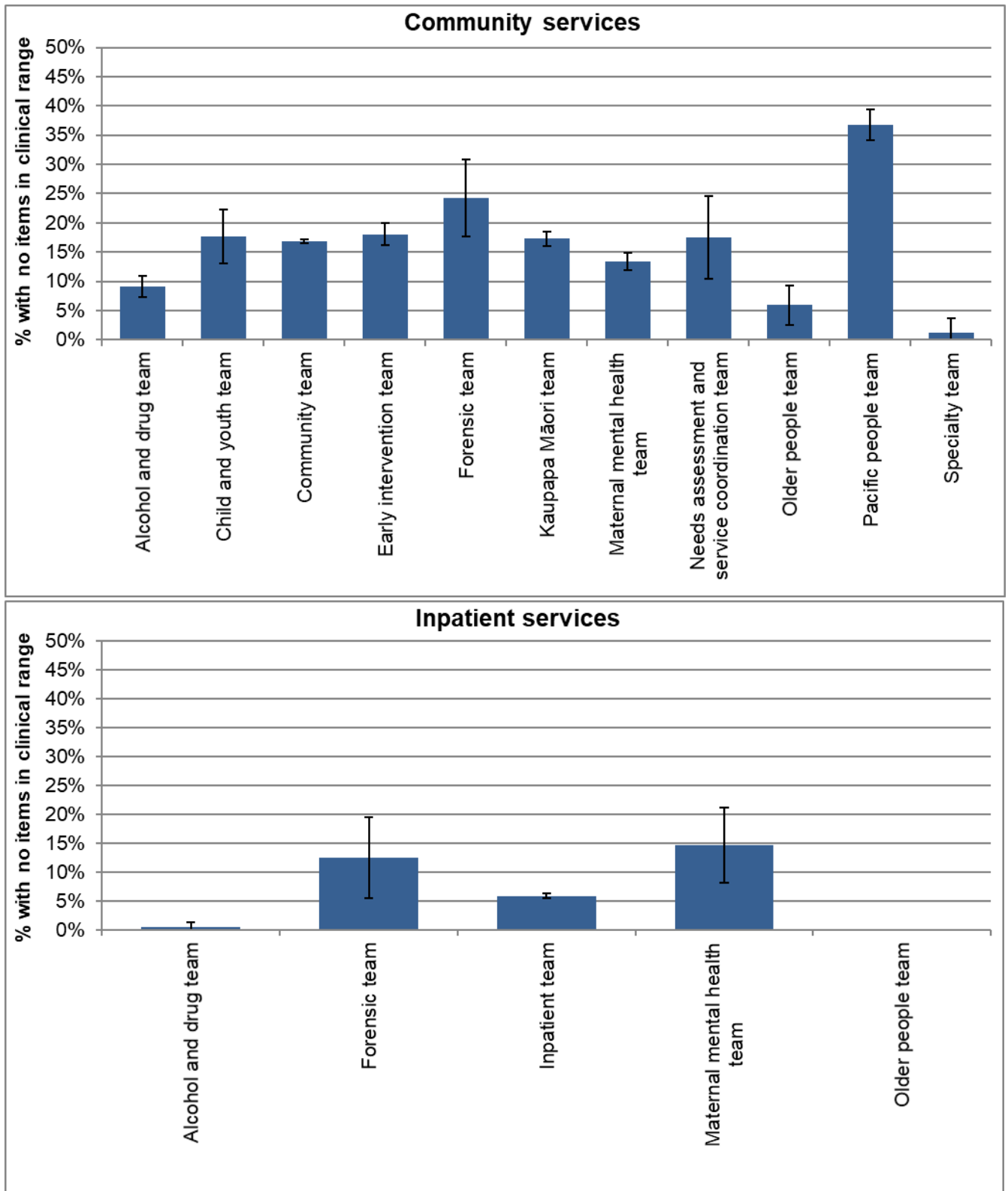
Team type	Assessment only					Admission					Review					Discharge				
	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N
<b>Community services</b>																				
Alcohol and drug team	11%	18%	29%	43%	287	7%	14%	43%	37%	474	12%	24%	40%	23%	559	38%	31%	20%	10%	235
Child and youth team	3%	22%	33%	42%	36	12%	20%	24%	44%	66	22%	29%	24%	25%	206	23%	42%	20%	15%	71
Co-existing problem team											18%	38%	21%	24%	34					
Community team	5%	23%	26%	46%	10,912	9%	27%	26%	38%	11,244	21%	41%	22%	17%	35,459	38%	35%	17%	10%	6,298
Early intervention team						10%	38%	24%	29%	333	22%	39%	21%	18%	1,262	46%	34%	13%	7%	136
Eating disorders team	11%	14%	32%	43%	28	0%	8%	45%	47%	336	4%	31%	38%	27%	271	31%	27%	26%	16%	172
Forensic team	46%	28%	23%	3%	65	29%	35%	24%	12%	49	54%	33%	6%	7%	116	82%	14%	3%	1%	79
Kaupapa Māori team	8%	25%	24%	43%	370	11%	34%	25%	30%	536	21%	41%	23%	15%	3,187	40%	36%	13%	10%	270
Maternal mental health team	23%	43%	14%	20%	137	9%	27%	28%	36%	912	17%	40%	24%	19%	1,203	56%	31%	8%	5%	887
Needs assessment and service coordination team											27%	33%	25%	15%	108					
Older people team	4%	21%	13%	63%	24	4%	28%	24%	45%	76	7%	30%	21%	42%	110	12%	21%	33%	35%	43
Pacific people team						20%	48%	16%	16%	143										
Specialty team	1%	6%	13%	80%	140	2%	29%	29%	41%	66	42%	42%	11%	5%	1,199	64%	32%	4%	0%	76
<b>Total</b>	<b>6%</b>	<b>23%</b>	<b>26%</b>	<b>46%</b>	<b>12,035</b>	<b>9%</b>	<b>27%</b>	<b>27%</b>	<b>37%</b>	<b>14,266</b>	<b>21%</b>	<b>40%</b>	<b>22%</b>	<b>17%</b>	<b>43,749</b>	<b>40%</b>	<b>34%</b>	<b>16%</b>	<b>9%</b>	<b>8,285</b>

Team type	Assessment only					Admission					Review					Discharge				
	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N
<b>Inpatient services</b>																				
Alcohol and drug team						0%	0%	67%	32%	223						0%	1%	76%	23%	210
Eating disorders team																5%	41%	18%	36%	22
Forensic team						17%	28%	21%	34%	29	10%	34%	20%	36%	59	58%	23%	12%	8%	26
Inpatient team						4%	14%	21%	61%	8,979	24%	28%	19%	29%	1,160	28%	37%	20%	14%	8,356
Maternal mental health team						9%	15%	23%	53%	91	44%	32%	8%	16%	25	22%	29%	21%	29%	77
Older people team						0%	10%	20%	70%	20						18%	18%	9%	55%	22
Specialty team																0%	30%	36%	33%	33
<b>Total</b>						<b>4%</b>	<b>14%</b>	<b>22%</b>	<b>60%</b>	<b>9,376</b>	<b>23%</b>	<b>28%</b>	<b>19%</b>	<b>29%</b>	<b>1,250</b>	<b>28%</b>	<b>36%</b>	<b>21%</b>	<b>15%</b>	<b>8,747</b>

**Notes:** Sub = sub clinical, Mild = mild, Mod = moderate, Sev = severe on Index of Severity. Only admission collection data is included so that results reflect the severity of service users during their engagement with the service. Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items. Community discharge does not include discharge to an inpatient unit.

**Interpretation:** Larger percentages in the columns to the right for each type of collection, the higher the overall severity of the team's caseload.

**Graph 8: Collections with no HoNOS items in clinical range: New Zealand, Jul 2019 - Jun 2020**



**Notes:** Includes admission and review collections. Shows percentage of service users with all HoNOS items less than two, ie no HoNOS items in the clinical range.

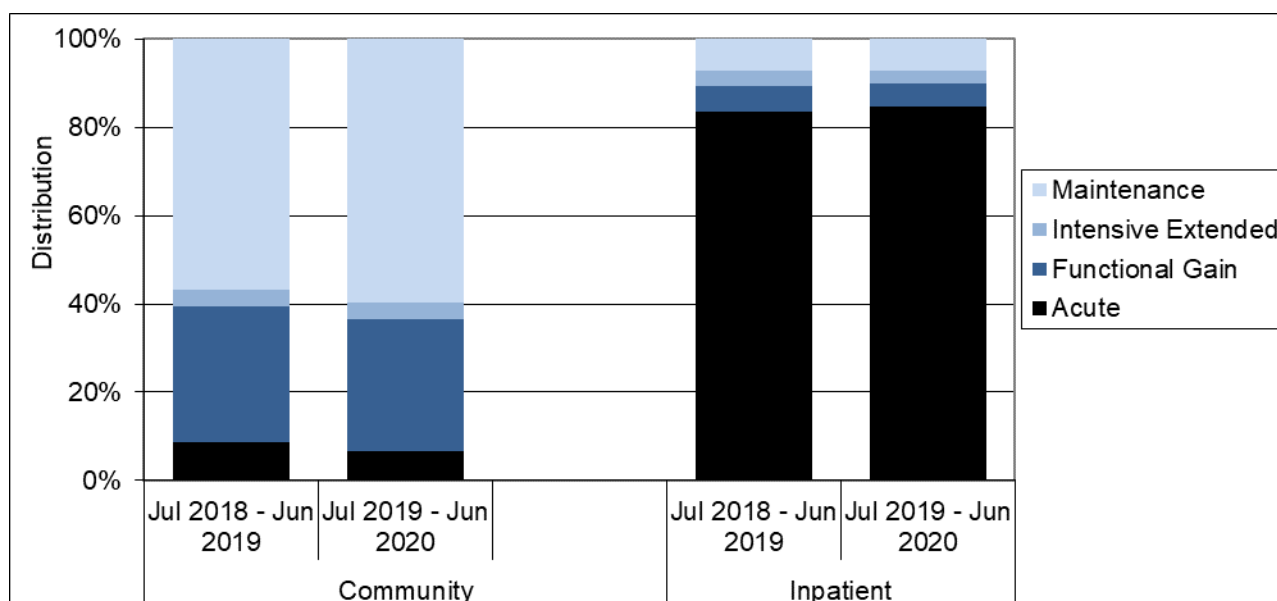
**Interpretation:** There are a variety of reasons that may make it appropriate for service users to remain in the service even though they show no HoNOS items in the clinical range. However, teams showing a larger or substantial percentage of service users with no HoNOS items in the clinical range could benefit from reviewing these cases to ensure that the service remains appropriate for this service user.

**Table 8: Collections with no HoNOS items in clinical range: New Zealand, Jul 2019 - Jun 2020**

Team type	Number of collections with no items in clinical range	Percentage with no items in clinical range
<b>Community services</b>		
Alcohol and drug team	94	9%
Child and youth team	48	18%
Community team	7,855	17%
Early intervention team	288	18%
Forensic team	40	24%
Kaupapa Māori team	643	17%
Maternal mental health team	284	13%
Needs assessment and service coordination team	20	18%
Older people team	11	6%
Pacific people team	493	37%
Specialty team	1	1%
<b>Total</b>	<b>9,795</b>	<b>17%</b>
<b>Inpatient services</b>		
Alcohol and drug team	1	0%
Forensic team	11	13%
Inpatient team	601	6%
Maternal mental health team	17	15%
Older people team	0	0%
<b>Total</b>	<b>630</b>	<b>6%</b>

**Notes:** For further information see notes for graph 8.

**Graph 9: Focus of care categories: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Data from review and discharge collections.

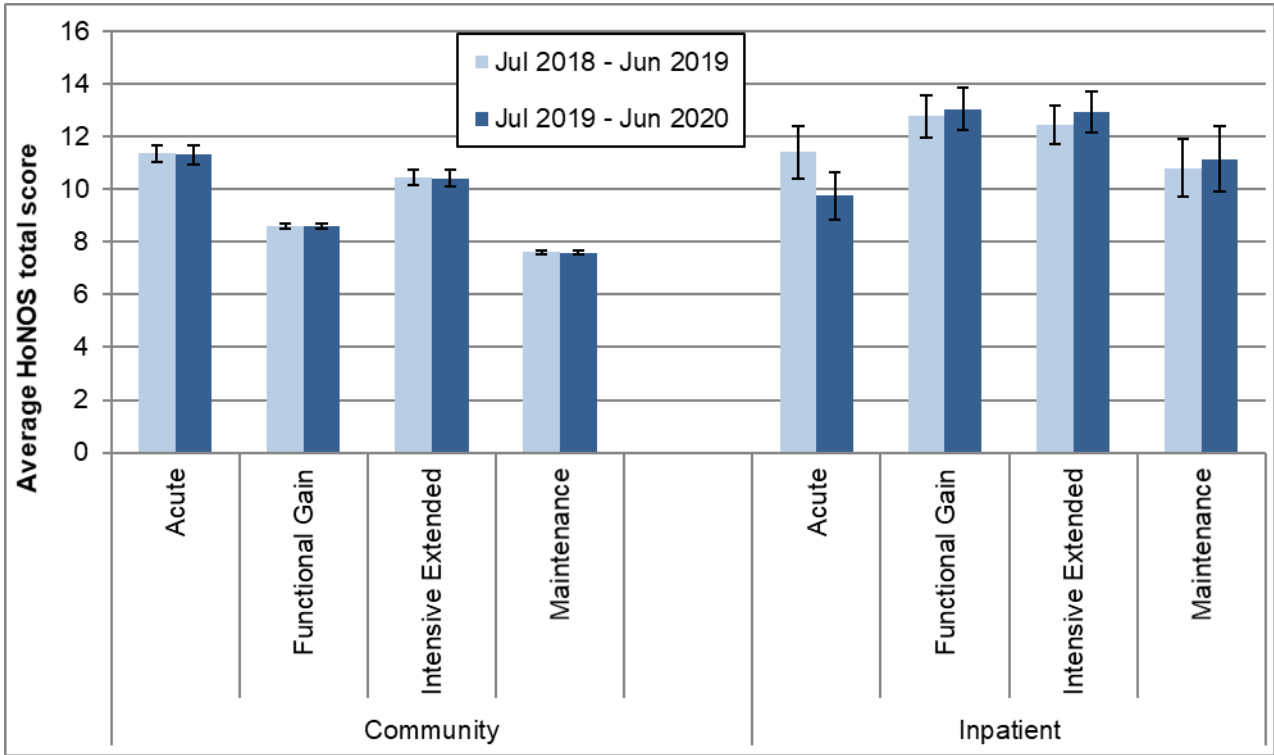
**Interpretation:** Darker bars indicate more intensive involvement in care, so a longer, darker bar in general suggests more intensive working. A longer functional gain bar and shorter maintenance bar potentially suggests more recovery focused ways of working.

**Table 9: Focus of care categories by team: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**

Team type	Acute		Functional gain		Intensive extended		Maintenance		Number of collections	
	Last	This	Last	This	Last	This	Last	This	Last	This
<b>Community services</b>										
Alcohol and drug team	5%	5%	43%	48%	0%	1%	52%	46%	1,103	804
Child and youth team	4%	3%	36%	36%	7%	7%	53%	54%	301	257
Co-existing problem team	15%	16%	10%	24%	5%	3%	70%	58%	40	38
Community team	9%	7%	30%	29%	4%	4%	57%	60%	41,863	39,129
Early intervention team	6%	6%	46%	52%	3%	3%	45%	40%	1,392	1,334
Eating disorders team	6%	9%	64%	58%	12%	8%	18%	25%	567	482
Forensic team	5%	3%	3%	2%	1%	5%	90%	90%	149	121
Intellectual disability dual diagnosis team	4%		0%		0%		96%		23	
Kaupapa Māori team	10%	4%	18%	16%	3%	3%	70%	77%	3,471	3,320
Maternal mental health team	8%	7%	53%	62%	2%	2%	37%	28%	2,229	1,992
Needs assessment and service coordination team	8%	1%	24%	15%	4%	9%	63%	75%	123	109
Older people team	10%	2%	12%	6%	4%	1%	74%	90%	119	82
Pacific people team	4%	2%	14%	11%	0%	0%	82%	86%	1,054	1,202
Specialty team	11%	48%	25%	22%	13%	0%	51%	30%	100	27
<b>Total</b>	<b>9%</b>	<b>7%</b>	<b>31%</b>	<b>30%</b>	<b>4%</b>	<b>4%</b>	<b>57%</b>	<b>60%</b>	<b>52,549</b>	<b>48,921</b>
<b>Inpatient services</b>										
Alcohol and drug team	100%	100%	0%	0%	0%	0%	0%	0%	234	198
Eating disorders team		73%		27%		0%		0%		22
Forensic team	13%	18%	10%	4%	59%	61%	18%	18%	97	80
Inpatient team	84%	85%	6%	5%	3%	3%	7%	7%	8,585	8,196
Maternal mental health team	93%	79%	0%	11%	0%	0%	7%	10%	68	98
Older people team	90%		0%		0%		10%		29	
Specialty team		100%		0%		0%		0%		22
<b>Total</b>	<b>84%</b>	<b>85%</b>	<b>6%</b>	<b>5%</b>	<b>3%</b>	<b>3%</b>	<b>7%</b>	<b>7%</b>	<b>9,049</b>	<b>8,626</b>

**Notes:** For further information see notes for Graph 9.

**Graph 10: HoNOS total score (review collections) by focus of care: New Zealand, Jul 2019 - Jun 2020**



**Notes:** This data is just for review collections.

**Interpretation:** Points are significantly different if error bars don't overlap. A general downward trend in scores from acute to maintenance focus of care might be expected.

**Table 10: HoNOS total score (review collections) by focus of care by team: New Zealand, Jul 2019 - Jun 2020**

Team type	Acute			Functional Gain			Intensive Extended			Maintenance		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
<b>Community services</b>												
Alcohol and drug team	22	12.0	8.9-15.2	176	8.3	7.5-9.1				335	7.6	7.1-8.2
Child and youth team				68	8.6	7.4-9.9				102	8.8	7.4-10.2
Co-existing problem team										21	8.2	6.2-10.3
Community team	920	11.1	10.7-11.5	8,824	8.6	8.5-8.7	1,461	10.4	10.0-10.7	20,173	7.7	7.6-7.8
Early intervention team	41	15.1	12.3-17.8	575	8.3	7.8-8.8	33	12.0	9.7-14.3	433	7.2	6.6-7.7
Eating disorders team				144	8.6	7.7-9.5	21	11.9	9.3-14.5	77	7.5	6.5-8.6
Forensic team										99	6.5	5.5-7.5
Kaupapa Māori team	79	12.3	11.2-13.4	459	10.0	9.4-10.5	83	11.2	9.5-12.9	2,261	8.1	7.9-8.3
Maternal mental health team	52	8.4	7.0-9.7	768	7.8	7.4-8.1	21	7.3	5.5-9.1	297	5.4	5.0-5.8
Needs assessment and service coordination team										79	7.3	6.3-8.3
Older people team										52	11.0	9.4-12.6
Pacific people team				98	6.4	5.5-7.4				967	4.6	4.4-4.8
<b>Total</b>	<b>1,148</b>	<b>11.3</b>	<b>10.9-11.7</b>	<b>11,141</b>	<b>8.6</b>	<b>8.5-8.7</b>	<b>1,654</b>	<b>10.4</b>	<b>10.1-10.7</b>	<b>24,916</b>	<b>7.6</b>	<b>7.5-7.7</b>
<b>Inpatient services</b>												
Forensic team							47	14.5	13.2-15.7			
Inpatient team	294	10.0	9.0-10.9	189	13.2	12.4-14.0	164	12.5	11.5-13.4	122	11.8	10.5-13.0
<b>Total</b>	<b>319</b>	<b>9.7</b>	<b>8.9-10.6</b>	<b>192</b>	<b>13.0</b>	<b>12.2-13.8</b>	<b>211</b>	<b>12.9</b>	<b>12.1-13.7</b>	<b>132</b>	<b>11.2</b>	<b>9.9-12.4</b>

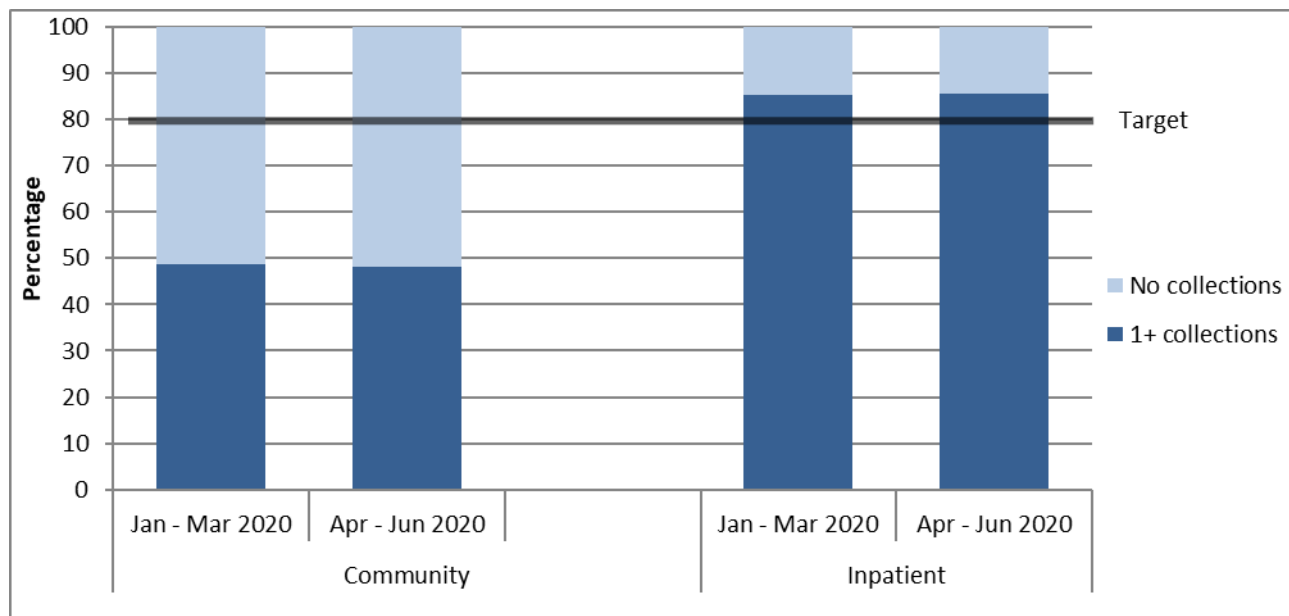
**Notes:** For further information see notes for Graph 10.



### 3. Collection completion and validity

This section presents information about the completeness and validity of the data on which the remainder of this report is based. It also shows the current targets for the variables presented.

**Graph 11: Percentage of service users with at least one collection during the period: New Zealand, Jan – Mar 2020 and Apr – Jun 2020 (18 to 64 years)**

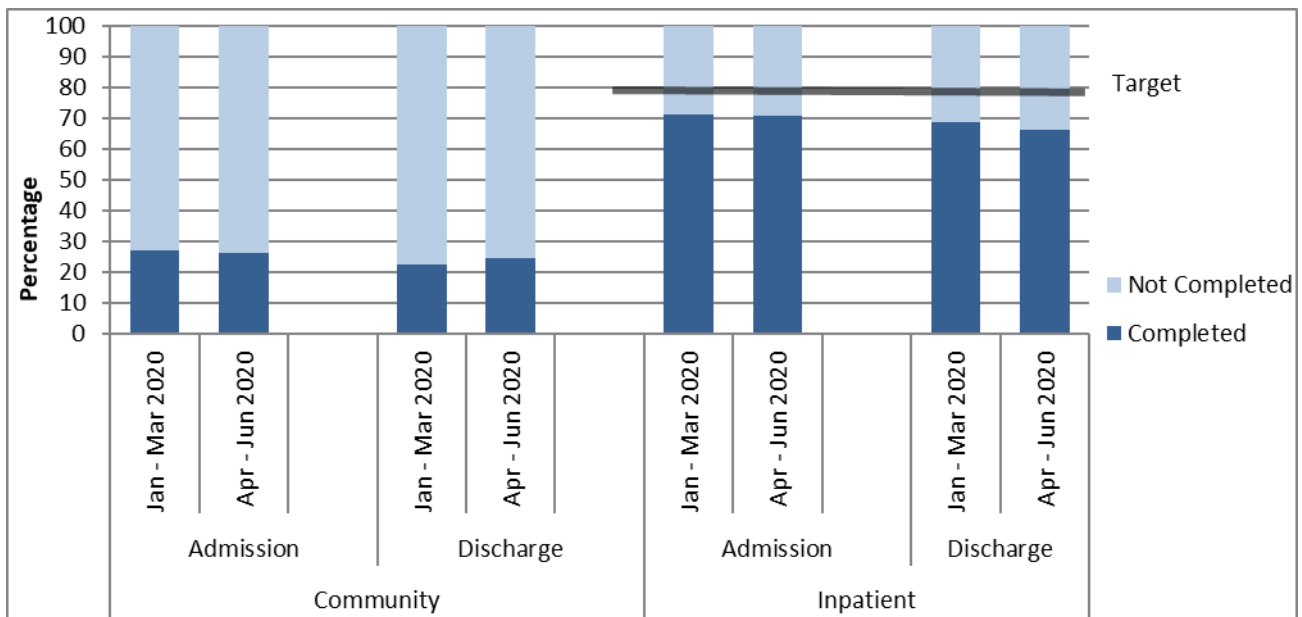


**Notes:** Community compliance is affected by crisis teams doing triage or brief assessment type activity which is not a comprehensive assessment.

**Interpretation:** The longer the dark part of the bar, the more completely the data set includes all service users, and the more meaningful and representative the graphs, tables, and analyses using these data will be. This data is approximate due to movement of service users between teams and similar variations; however, it does provide a reasonably accurate representation of completion of measures. Only data with valid collections is included.

**Target:** To meet or exceed the target shown on the graph for the percentage of service users with at least one collection within the period.

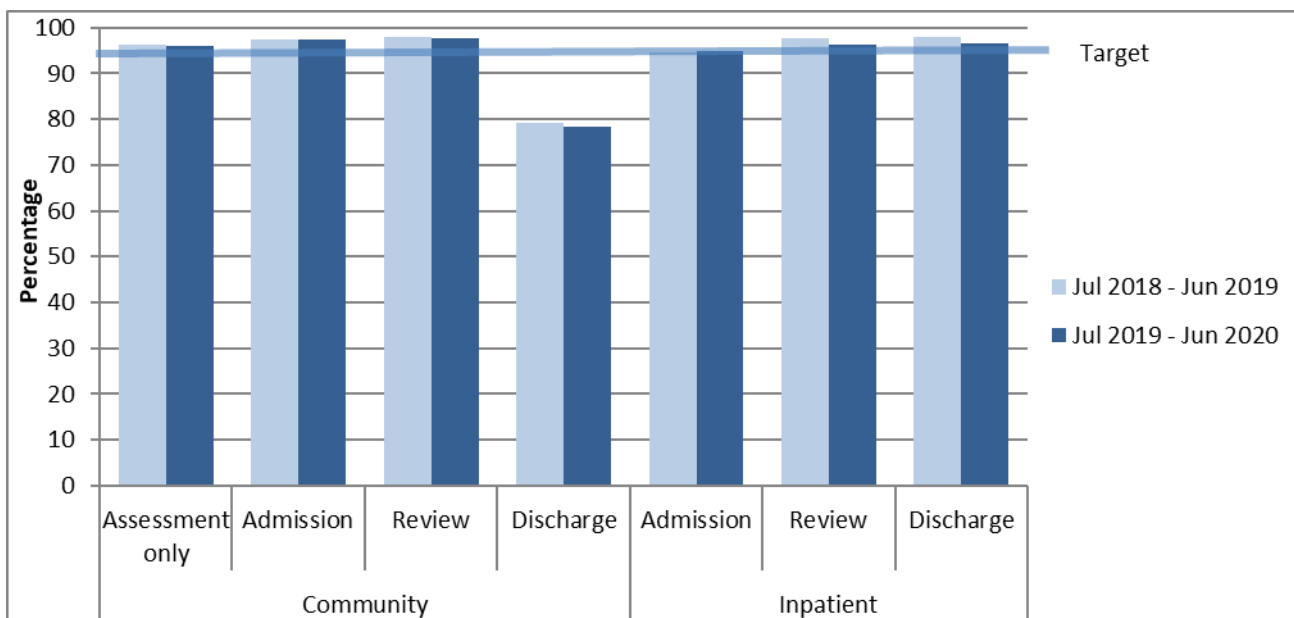
**Graph 12: Percentage of service users with admission and discharge collections completed: New Zealand, Oct – Dec 2019 and Apr – Jun 2020 (18 to 64 years)**



**Notes:** Community compliance is affected by crisis teams doing triage or brief assessment type activity which is not a comprehensive assessment.

**Interpretation:** The longer the dark bar, the larger the percentage of admission and discharge that had the relevant data collection type. Data is approximate due to movement of service users between teams and similar variations; however, it does provide a reasonably accurate representation of completion of measures. Only data with valid collections is included.

**Graph 13: Percentage of valid collections, HoNOS: New Zealand, Jul 2018 - Jun 2019 and Jul 2019 - Jun 2020**



**Notes:** Valid = Two or fewer of the 12 items scored as unknown or missing. Discharge excludes collection types for lost to care, discharge dead and brief episode of care. Collection in drug and alcohol teams is not required, therefore AOD data is excluded.

**Interpretation:** The longer the dark lines, the higher the percentage of valid scores.

**Target:** Aim for 95% valid collections.

**Table 13: Invalid collections by team, by HoNOS item: New Zealand, Jul 2019 - Jun 2020**

Team type	% Invalid			Number of invalid ratings by HoNOS item												Total number
	Adm	Rev	Dch	1	2	3	4	5	6	7	8	9	10	11	12	
<b>Community services</b>																
Child and youth team	1%	3%	13%	21	22	23	19	21	24	21	21	20	19	22	20	413
Community team	3%	2%	22%	3,748	3,888	4,589	4,004	3,897	3,993	4,053	4,119	4,129	4,057	4,179	4,447	71,345
Early intervention team	3%	2%	24%	130	139	151	137	131	137	135	151	140	138	138	141	2,083
Eating disorders team	1%	2%	12%	46	48	50	46	47	45	48	42	43	43	46	47	942
Forensic team	2%	2%	18%	23	23	34	24	24	25	23	23	24	24	23	25	342
Kaupapa Māori team	4%	3%	23%	253	256	293	256	255	259	264	273	264	276	261	269	4,894
Maternal mental health team	2%	2%	22%	346	358	379	350	353	348	344	356	347	351	356	360	3,667
Needs assessment and service coordination team		0%		0	0	0	0	0	0	0	0	0	0	0	0	133
Older people team	5%	0%	15%	9	12	11	11	9	14	13	25	11	10	10	15	276
Pacific people team	3%	1%	20%	57	60	64	57	59	59	57	60	60	81	75	89	1,587
Specialty team	1%			12	13	16	17	11	13	15	18	64	66	68	67	302
<b>Total</b>	<b>3%</b>	<b>2%</b>	<b>22%</b>	<b>4,645</b>	<b>4,819</b>	<b>5,610</b>	<b>4,921</b>	<b>4,807</b>	<b>4,917</b>	<b>4,973</b>	<b>5,088</b>	<b>5,102</b>	<b>5,065</b>	<b>5,178</b>	<b>5,480</b>	<b>86,019</b>
<b>Inpatient services</b>																
Eating disorders team			0%	0	0	0	0	0	0	0	0	0	0	0	0	38
Forensic team	6%	2%	0%	0	0	3	1	0	0	2	3	0	1	7	4	117
Inpatient team	5%	4%	4%	355	430	761	541	447	480	564	750	714	627	969	1,129	19,077
Maternal mental health team	2%	0%	0%	1	2	4	1	2	1	2	2	1	1	4	10	193
Older people team	23%		4%	0	1	3	2	1	2	4	5	3	1	14	16	56
Specialty team			0%	0	0	0	0	0	0	0	0	0	0	0	0	50
<b>Total</b>	<b>5%</b>	<b>4%</b>	<b>4%</b>	<b>356</b>	<b>433</b>	<b>771</b>	<b>545</b>	<b>450</b>	<b>483</b>	<b>572</b>	<b>761</b>	<b>718</b>	<b>630</b>	<b>994</b>	<b>1,159</b>	<b>19,533</b>

**Notes:** Per cent (%) invalid collections = the percentage of collections that had three or more of the 12 items scored as unknown or missing. Number of invalid ratings by HoNOS item = for each of the HoNOS items, the number of collections for which that item was unknown or missing. Discharge excludes collection types for lost to care, deceased and brief episode of care. Collection in drug and alcohol teams is not required, therefore AOD data is excluded. **Interpretation:** The lower the per cent invalid, the higher the percentage of valid scores. The lower the number of invalid collections by HoNOS item, the more collections that have valid data on that HoNOS item. **Target:** Aim for 95% valid collections (5% invalid collections) or better. Aim for as few invalid items as possible, with all items having a similar validity rate.